Figure 1: Comparison of monthly mean ISCCP *(legend **ISCCP**),* SRBAVG2 Edition2D the MODIS&GEO product *(legend **GEO**)* and SRBAVG3 Edition2D the MODIS-only product *(legend **MODIS**)*

a. 60°N to 60°S daytime cloud amount from March 2000 to February 2003
b. 60°N to 60°S cloud optical depth from March 2000 to February 2003
c. 60°N to 60°S cloud temperature from March 2000 to February 2003
d. global (day and night) cloud amount from March 2000 to February 2003
e. global cloud optical depth from March 2000 to February 2003
f. global cloud temperature from March 2000 to February 2003

The global cloud amount is also compared with **ECMWF**-ERA40 and **NCEP**-reanalysis. The top panel displays the global monthly means for each dataset. The middle panel shows the monthly mean differences. The bottom panel left side contains the legend for the top panel and the corresponding 3-year means. The bottom panel right side contains the legend for the middle panel and the corresponding 3-year mean differences

Figure 1a, 60°N to 60°S Daytime Cloud Amount

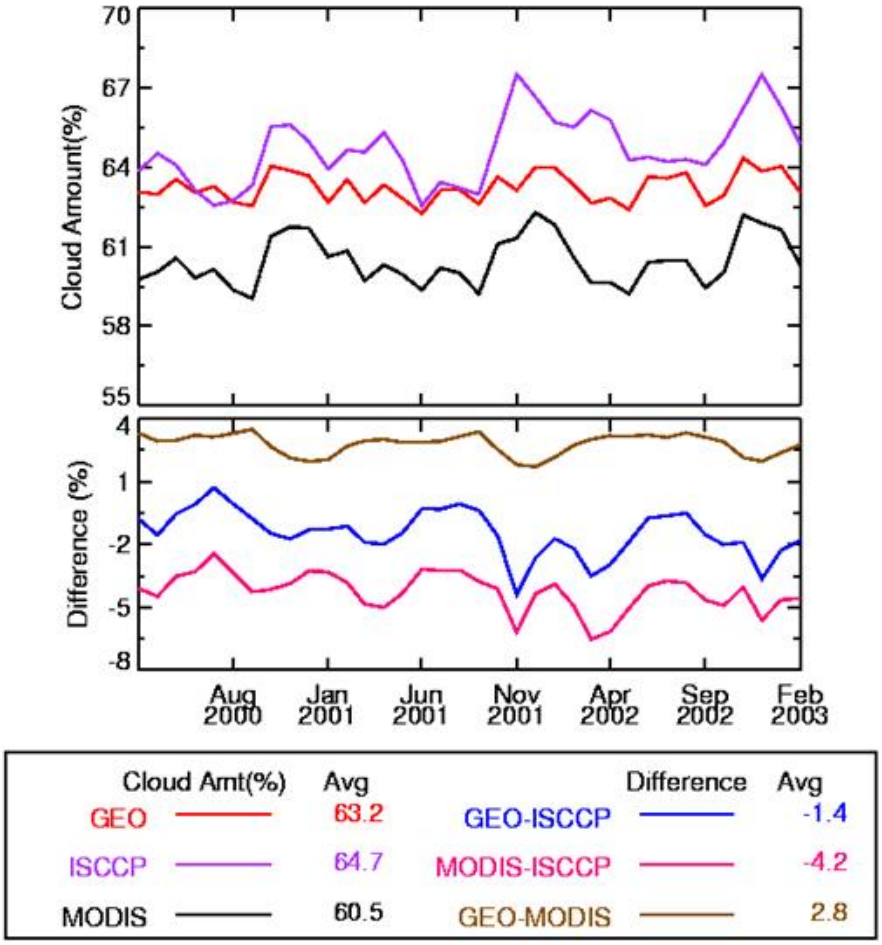
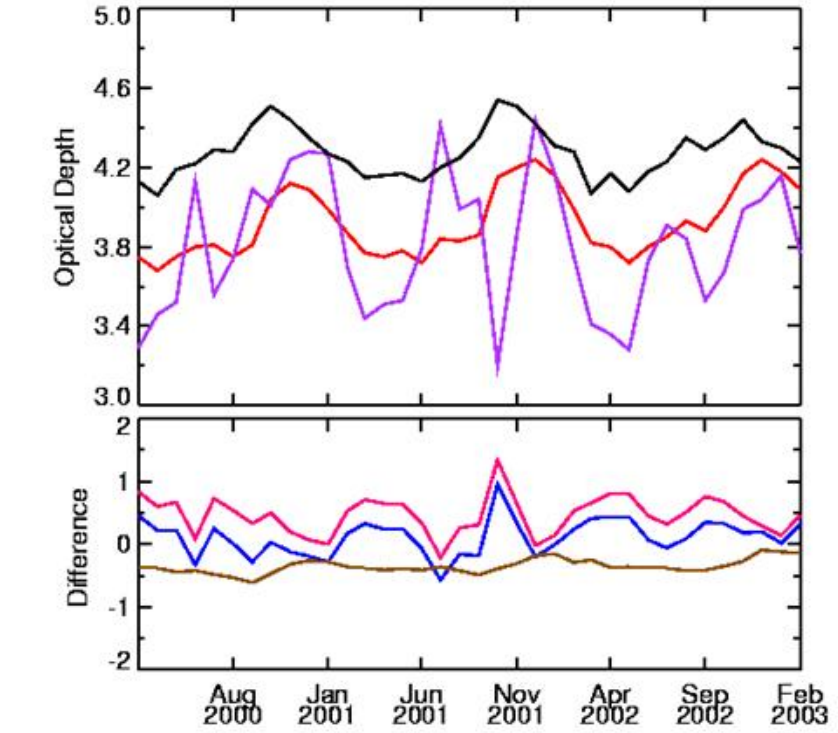
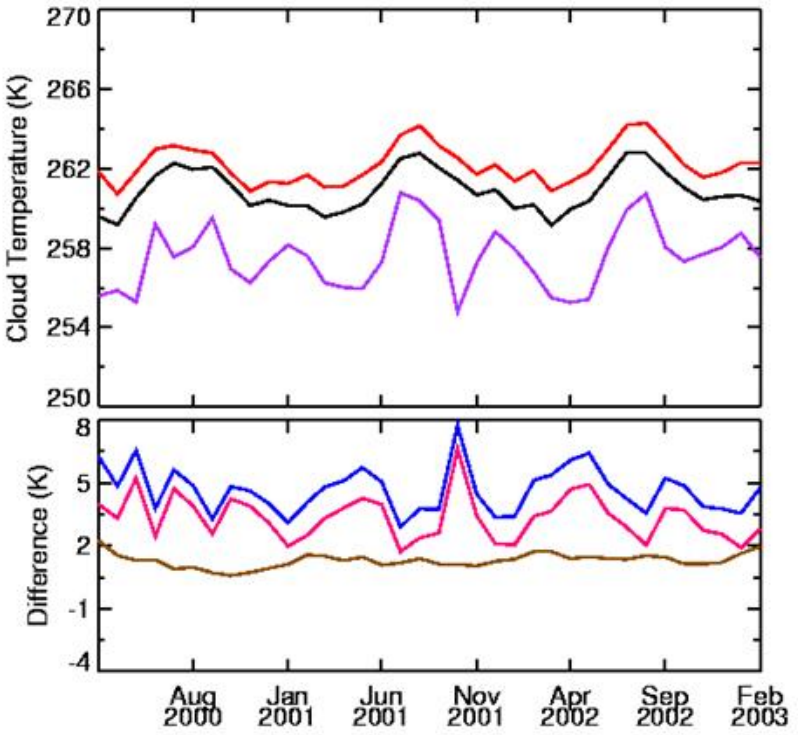


Figure 1b, 60°N to 60°S Daytime Cloud Optical Depth



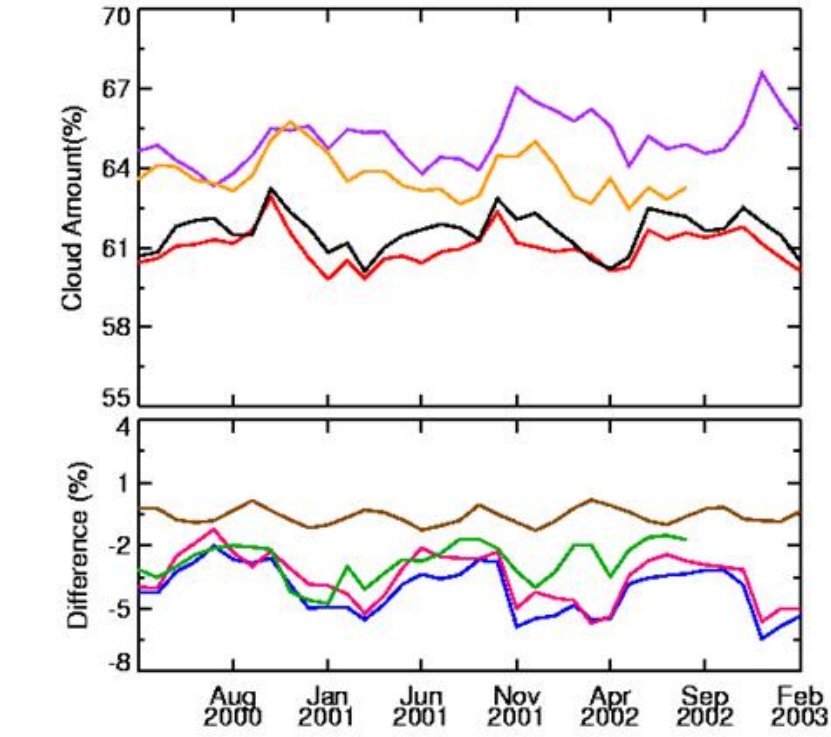
	Tau	Avg		Difference	Avg
GEO		3.9	GEO-ISCCP		0.1
ISCCP		3.8	MODIS-ISCCP		0.5
MODIS		4.3	GEO-MODIS		-0.4

Figure 1c, 60°N to 60°S Daytime Cloud Temperature



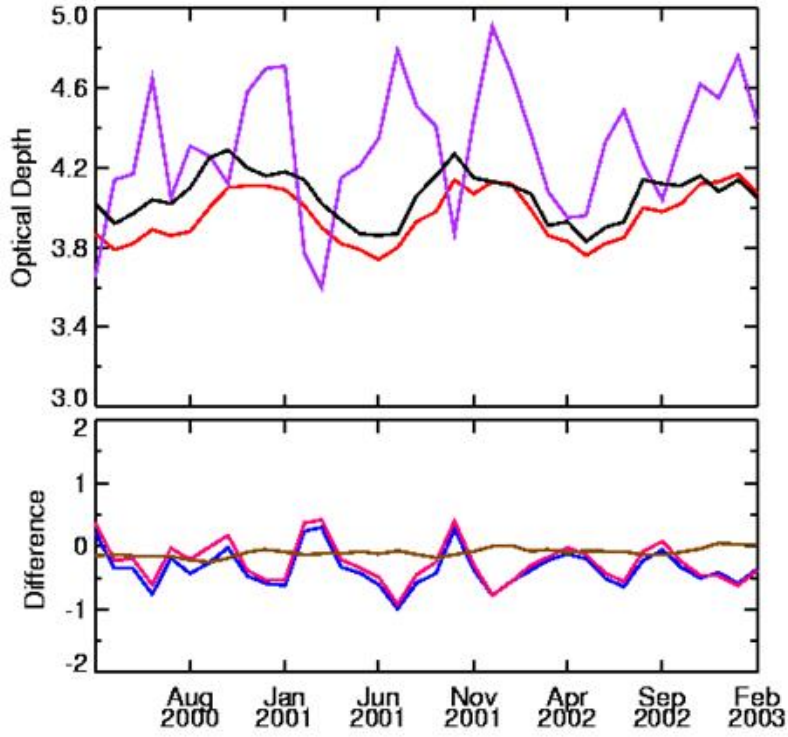
	Cloud Temp (K)	Avg		Difference	Avg
GEO		262.2	GEO-ISCCP		4.7
ISCCP		257.5	MODIS-ISCCP		3.4
MODIS		260.9	GEO-MODIS		1.3

Figure 1d, Global Cloud Amount



Cloud Amt(%)	Avg	Difference	Avg
GEO	61.0	GEO-ISCCP	-4.1
ISCCP	65.1	MODIS-ISCCP	-3.5
MODIS	61.6	GEO-MODIS	-0.6
ECMWF	63.7	GEO-ECMWF	-2.8

Figure 1e, Global Cloud Optical Depth



Tau	Avg	Difference	Avg
GEO	4.0	GEO-ISCCP	-0.4
ISCCP	4.3	MODIS-ISCCP	-0.3
MODIS	4.1	GEO-MODIS	-0.1

Figure 1f, Global Cloud Temperature